

INCH-POUND

MS24591C
22 September 2000
SUPERSEDING
MS24591B
8 March 1985

DETAIL SPECIFICATION SHEET

SOCKET, ADAPTER, HOSE TO TUBE, REUSABLE, HYDRAULIC,
FUEL AND OIL LINES. 1 THROUGH 2 INCHES TUBING SIZE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-5070E.

REQUIREMENTS.

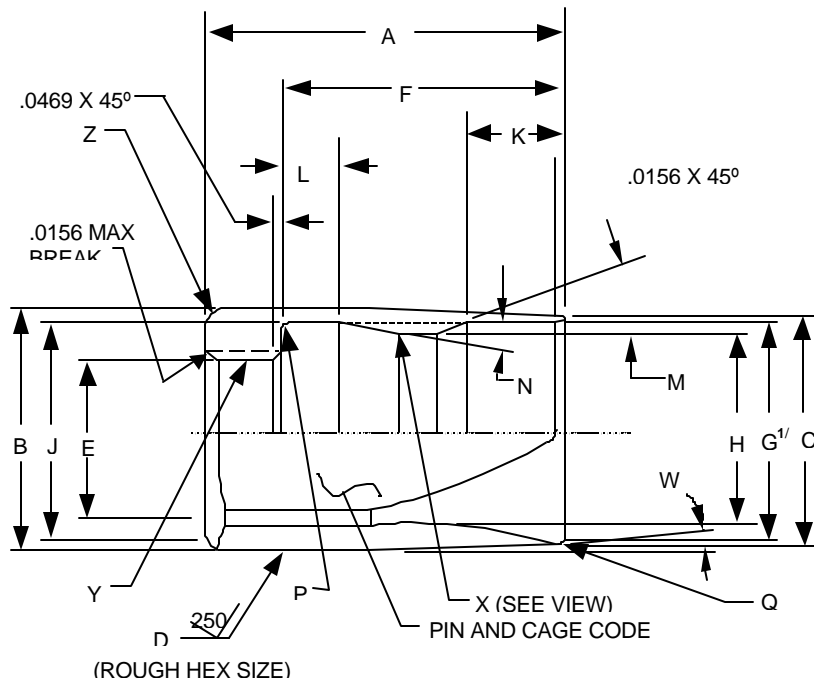
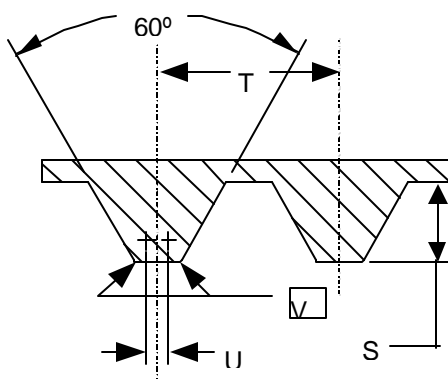


FIGURE 1. Socket illustration.

MS24591C



ENLARGED VIEW OF X THREAD

FIGURE 1. Socket illustration - Continued.

TABLE I. Socket composition.

PIN	A	B	C	D	E	F	G ^{1/}	H	J
MS24591		Dia	Dia		Dia		Dia	Dia	Dia
-16	1.671 1.651	1.546 1.516	1.421 1.391	1.453 1.423	1.015 1.002	1.280 1.260	1.290	1.175	1.340 1.330
-20	1.760 1.740	1.921 1.891	1.765 1.735	1.765 1.735	1.265 1.252	1.373 1.353	1.555	1.430	1.560 1.550
-24	1.860 1.830	2.124 2.094	1.937 1.907	1.953 1.923	1.515 1.502	1.465 1.445	1.800	1.675	1.810 1.795
-32	2.270 2.230	2.640 2.600	2.460 2.420	2.460 2.420	1.948 1.940	1.860 1.820	2.290	2.160	2.330 2.315

PIN	K	L	M	N	P	Q	S	T	U
MS24591					Rad	Rad			
-16	.300	.280 .270	20°	15°	.062 .032	.046 .016	.0575 .0625	.166	.000
-20	.350	.255 .245				.077 .047			
-24	.000	.455 .445	8°	25°					
-32	.250	.520 .480	12.5°	15°	.070 .030	.050 .010	.0620	.200	.022 .012

TABLE I Socket composition - Continued.

PIN	V Rad	W	X LH-Round Thread	Y	Z Rad
MS24591					
-16	.031	3.5°	1.290-6	1.0625-18 UNEF-3B	.109 .079
-20		4°	1.555-6	1.3125-18 UNEF-3B	.140 .110
-24		4.5°	1.800-6	1.5625-18 UNEF-3B	.156
-32	.018		2.285-5	2.0000-18 UNS-3B	.180 .140

Notes.

1/ Thread marks on diameter G shall not be cause for rejection.

Intended use. This part is a component of MS24587, MS27224, MS27226, MS27228, MS27230, and MS27232.

Dimensions and tolerances. Dimensions are in inches. Unless otherwise specified, tolerances are as follows: angles $\pm 1^\circ$; decimals $\pm .005$.

Materials. Aluminum alloy 2024, T6 or T851 temper, in accordance with SAE AMS-QQ-A-225/6, or aluminum alloy in accordance with QQ-A-367, T6 temper.

Finish. Anodize in accordance with MIL-A-8625, Type II, dyed blue or yellow.

Surface roughness. Unless otherwise specified, maximum surface roughness shall be 125 μin R_a in accordance with ASME B46.1.

Design. Threads shall be in accordance with SAE AS8879.

Workmanship. Break all sharp edges and remove all burrs and slivers.

Identification of product. The part or identifying number (PIN) and the manufacturer's Commercial and Government Entity (CAGE) Code or trademark shall be permanently marked on the socket or on a removable tag securely attached to the socket. The PIN for this part shall be as shown in table I (e.g., MS24591-16).

Order of precedence. This specification sheet takes precedence over the documents referenced herein. Unless otherwise specified, referenced documents shall be of the issue in effect on the date of solicitation.

CHANGES FROM PREVIOUS ISSUE. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:

Army - AT
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-0696)

Review activities:

Army - AV
Navy - MC, SA
Air Force - 11, 82